

Missouri

State Fleet Efficiency and Alternative Fuel Program

Annual Report
State Fiscal Year 2017



Department of Economic Development
Division of Energy

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Michael L. Parson
Governor



Department of Economic Development

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Director

DIVISION OF ENERGY

The Fuel Conservation for State Vehicles Program statute, Sections 414.400 - 414.417 RSMo, and the federal Energy Policy Act establish guidelines for Missouri state agencies to manage transportation fuel consumption and promote the use of clean domestic alternative fuels.

All state agencies are obligated to report their progress annually to the Department's Division of Energy for the development of the Missouri State Fleet Efficiency and Alternative Fuels Program Annual Report.

We submit for your consideration this report for state fiscal year 2017 on state fleet efficiency and alternative fuels use.

Sincerely,

DIVISION OF ENERGY

A handwritten signature in blue ink that reads "Kristy Manning". The signature is fluid and cursive, with a large loop at the end.

Kristy Manning
Director

KM:jrl

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I. Executive Summary

The transportation sector in Missouri is responsible for a large portion of energy consumption. Of the 1,827 trillion BTU that were consumed in the state in 2015, according to the latest data available from the U.S. Energy Information Agency, the transportation sector was responsible for 30.1 percent (550 trillion BTU) of that amount.

The Missouri General Assembly set standards for economically and environmentally responsible state fleet management by enacting Sections 414.400 - 414.417, Revised Statutes of Missouri (RSMo), also known as the Fuel Conservation for State Vehicles Program (Appendix A). The intent of this legislation is to encourage the increase of the average fuel efficiency of the state fleet and the use of cleaner alternative transportation fuels in state vehicles. The statute provides for an annual state fleet report to be compiled by the Department of Economic Development.¹ The annual state fleet report is compiled by the Division of Energy and includes, but is not limited to, annual fuel consumption, number of vehicles operated, vehicle miles traveled, average fleet fuel economy, estimated cost savings, and the state's use of alternative fuels. Fleet data submitted to the department by the reporting agencies is provided in Appendix D. This report covers fiscal year (FY) 2017, July 1, 2016 through June 30, 2017.

All Missouri state agencies (or "agencies") are required to comply with the statute and are subject to one or both of the fleet efficiency and alternative fuel requirements. Agencies report annually to the department's Division of Energy (the "division"), vehicle operating data on their respective fleets that includes the information listed above. The statute includes light-duty vehicles which are defined as vehicles under 8,500 pounds gross vehicle weight rating. State agencies operated a total of 12,216 vehicles during fiscal year 2017 (Table 3), of which 4,422 qualified to meet the vehicle fuel efficiency and alternative fuel requirements (eligible vehicles) as described in the statutes. The remaining 7,794 vehicles were reported as exempt from meeting those requirements (exempt vehicles).

For the eligible vehicles, agencies reported logging a total of 47,215,718 miles and using 2,084,772 gallons of gasoline; 109,628 gallons of 85 percent ethanol (E85), including E85 used in exempt vehicles; zero gallons of propane, including propane in exempt vehicles; 2,933 kilowatt hours (kWh) of electricity (88 gasoline gallon equivalents or GGE), and zero cubic feet of Compressed Natural Gas (CNG). In FY 2017, state employees drove 2.7 percent less state fleet miles than in FY 2016. Gasoline usage increased by 0.5 percent; E85 usage decreased by 11.9 percent; propane usage dropped to zero; and CNG usage remained at zero.

Agencies also reported the use of biodiesel in state vehicles in FY 2017 and although biodiesel will normally be used in vehicles designated as exempt under the statute, the U.S. Department of Energy (US DOE) defines biodiesel blended at levels of 20 percent² or greater an alternative fuel. For purposes of this report and to ensure consistency, the quantities for blends of biodiesel less than the 100 percent blend level have been converted to its equivalent if purchased at a 100 percent level. Using this conversion, the combined total of biodiesel used by state agencies during the reporting period was 263,661 gallons which equates

¹ Per Executive Order #13-03, the Division of Energy was transferred from the Department of Natural Resources to the Department of Economic Development effective August 28, 2013. The transfer included "all authority, powers, duties, functions, records, personnel, property, contracts, budgets, matters pending, and other pertinent vestiges" of the division. Therefore, the reporting requirements fall under the responsibility of the Department of Economic Development (the "department"). Executive Order #13-03 can be found at http://www.sos.mo.gov/library/reference/orders/2013/eo13_003

² A biodiesel blend level of 20 percent is the most commonly used.

to 1,318,305 gallons of biodiesel blended at the 20 percent level. A significant factor aiding the Missouri Department of Transportation's (MoDOT) biodiesel consumption is its on-site access to biodiesel fuel.

The National Highway Traffic Safety Administration (NHTSA) is required by the Energy Independence and Security Act of 2007 (EISA) to set a minimum fuel economy standard for domestically manufactured passenger cars in addition to the attribute-based passenger car standard. The agency's estimates for the model year (MY) 2017–2019 Corporate Average Fuel Efficiency (CAFE) standards are provided in the Average Fleet Fuel Economy section of this report.

NHTSA has established fuel economy standards for the combined industry-wide fleet that increase each year reaching an estimated 40.8 mpg by MY 2020. Per rules established and published in the Federal Register May 7, 2010, starting with MY 2012 vehicles, automakers are required to improve fleet-wide fuel economy and reduce fleet-wide greenhouse gas emissions by approximately five percent each year.

During the 2017 fiscal year, the overall average fuel efficiency of new vehicles reported by agencies was 41.6 mpg for passenger cars and 29.6 mpg for light-duty trucks.³ All but seven (7) of the 30⁴ reporting agencies that purchased passenger cars or light duty trucks exceeded the required CAFE standards.

The Commissioner of the Office of Administration (OA) is required to ensure that at least 70 percent of new state fleet vehicles are flexible fuel vehicles (Section 37.455). As determined by the US DOE, state fleets may satisfy their Alternative Fuel Vehicle (AFV) acquisition requirements in model year 2014 and later by acquiring light duty non-AFV Hybrid Electric Vehicles (HEV). An agency will earn one-half credit for the acquisition of each non-AFV HEV. Of the 30 reporting state agencies, ten (10)⁵ met or exceeded the statutory requirement, nine (9)⁶ state agencies did not meet the statutory requirement, and eleven (11)⁷ agencies were not required to meet the statutory requirement.

The statute requires that at least 30 percent of all fuel used in eligible, state-owned AFVs, be the designated alternative fuel. During FY 2017, five percent of all fuel used in eligible AFVs was the designated alternative fuel. However, the statute provides for state agencies to take credit toward meeting their 30 percent goal by including the use of alternative fuel in exempt vehicles in the numbers reported. When the biodiesel used to refuel exempt diesel vehicles and the other fuels used in exempt AFVs are included in the calculation, the percent of alternative fuel reported used rose to 18 percent, 1 percent lower than the previous year.

³ Note that the CAFE numeric system awards additional credit for purchase of alternative fuel vehicles. This credit can significantly increase the CAFE rating of vehicles purchased and accounts for the high overall efficiency of new vehicles acquired.

⁴ Harris-Stowe State University failed to report

⁵ Agencies meeting statutory requirements included Office of Administration, Dept. of Corrections, Dept. of Conservation, Dept. of Elementary and Secondary Ed., Dept. of Health and Senior Services, Dept. of Insurance, Financial Institutions and Professional Registration, Dept. of Labor, Dept. of Mental Health, Dept. of Transportation, and the Dept. of Public Safety

⁶ Agencies not meeting statutory requirements included Department of Social Services, Department of Agriculture, Department of Revenue, Department of Natural Resources, University of Missouri, Department of Economic Development, Missouri State University, Lincoln University, and Northwest Missouri State University

⁷ Agencies not required to meet statutory requirements included Other State Organizations, Secretary of State, Southeast Missouri State, Truman State University, University of Central Missouri, Attorney General, Department of Higher Education, Missouri Southern State University, Missouri Western State University, State Auditor, and State Treasurer. These agencies either did not purchase any new vehicles or they operated 15 or fewer eligible vehicles.

Agencies use Executive Order 95-05⁸, which provides guidelines for when to consider E85 price competitive, as a guide in determining the feasibility of using alternative fuel when refueling. The division has worked throughout the reporting period to promote the continued and increased use of alternative fuels and has provided technical and programmatic assistance to state agencies.

Missouri's energy supply must be diverse and secure. The efficient use of energy helps maximize our financial and natural resources. By using less energy, our businesses can make products with lower overhead, improve our gross state product and free up capital to create more jobs and increase economic growth.

⁸ http://www.sos.mo.gov/library/reference/orders/1995/eo1995_005.asp

II. Introduction

The Missouri General Assembly set standards for economically and environmentally responsible state fleet management by enacting Sections 414.400 - 414.417, RSMo, also known by the title Fuel Conservation for State Vehicles Program (Appendix A). The intent of this legislation is to encourage an increase of the average fuel efficiency of the state fleet and the use of cleaner alternative transportation fuels in state vehicles. The statute provides for an annual state fleet report to be compiled by the department which includes, but is not limited to, annual fuel consumption, number of vehicles operated, vehicle miles traveled, average fleet fuel economy, estimated cost savings and the state's use of alternative fuels. The annual state fleet report is compiled by the Division of Energy. Fleet data submitted to the department by the reporting agencies is provided in Appendix D. This report covers the period of fiscal year 2017, July 1, 2016, through June 30, 2017.

All Missouri state agencies (or "agencies") are required to comply with the statute and are subject to one or both of the fleet efficiency and alternative fuel requirements. The statute covers passenger cars and light-duty vehicles, defined as those under 8,500 pounds gross vehicle weight rating. The department is required to prepare an annual report on the Fuel Conservation for State Vehicles Program. State agencies that do not meet the requirements for purchase of alternative fuel vehicles must obtain a waiver from the OA before purchasing any light-duty vehicle other than an AFV. OA is required to ensure compliance with purchasing guidelines of AFVs and efficiency standards of conventional fuel vehicles.

State agencies have the opportunity to stretch operating budgets through greater fleet efficiency and to demonstrate approaches that reduce fuel consumption, manage travel efficiently and use cleaner alternative fuels. This program also offers opportunities for interagency communication and cooperation.

Based on statutory requirements⁹, the following are the Fuel Conservation for State Vehicles Program objectives:

- *To achieve an efficient vehicle fleet.* State law requires state agencies to meet minimum guidelines for efficient vehicle fleet management as established by the department.
- *To realize environmental and economic benefits of using alternative transportation fuels.* State government is to operate vehicles on alternative fuels, such as 85 percent ethanol, propane, compressed natural gas or others, if the fuels are within the incremental life-cycle cost caps designated in the statute. The law establishes the maximum incremental life-cycle cost difference at 10 percent, except for vehicles to be used in clean air maintenance and non-attainment areas of Kansas City and St. Louis, where the allowable incremental cost difference is 17 percent.
- *To increase the number of alternative fuel vehicles (AFV) in state fleets.* The Commissioner of the OA is required to ensure that at least 70 percent of new state fleet vehicles are flexible fuel vehicles (Section 37.455).

⁹ All agencies of Missouri state government are subject to the provisions of the program, with the exception of the departments of Transportation and Conservation, which may develop fleet management plans independently. Certain off-road vehicles, special use vehicles, law enforcement vehicles and vehicles for which no published EPA CAFE standard exists are exempt from the provisions.

- *To increase the use of alternative fuels in state-owned vehicles.* At least 30 percent of the fuel used in state-owned AFVs is required to be an alternative fuel. Compliance with this requirement by individual agencies and in the aggregate is documented in annual reports submitted by the agencies to DE following the end of the fiscal year. Summary tables showing the fleet operating data in total and by the individual agencies can be found in Appendix B.¹⁰

III. Annual Fuel Consumption

Shown in Table 1 is the annual fuel consumption reported by state agencies for state-owned vehicles operated during FY 2017. Gasoline, diesel, and alternative fuel consumption are compared for eligible, exempt, and all vehicles operated throughout the reporting period. Biodiesel consumption, shown in the table at the B100 blend level, is the majority of the alternative fuel used in exempt vehicles.

Table 1 FY 2017 Fuel Consumption			
Fuel Type	Eligible Vehicles	Exempt Vehicles	All State Vehicles
Gasoline (gallons)	2,084,772	5,752,312	7,837,084
Diesel (gallons)	44,734	2,965,256	3,009,990
Alternative Fuel (gge) *biodiesel is included as B100	72,448	290,558	363,006

Following the end of the fiscal year, both annual fuel consumption and annual fuel cost numbers are provided by state agencies to the department. Shown in Table 2 are the annual fuel cost numbers that directly correspond to the fuel consumption numbers shown in Table 1.

Table 2 FY 2017 Fuel Cost			
Fuel Type	Eligible Vehicles	Exempt Vehicles	All State Vehicles
Gasoline	\$4,014,175	\$10,993,696	\$15,007,871
Diesel	\$74,770	\$5,961,231	\$6,036,001
Alternative Fuel	\$168,920	\$529,394	\$698,314
Total	\$4,257,864	\$17,484,321	\$21,742,186

To provide a measure of the overall operational fleet size, Table 3 shows the number of state-owned vehicles operated by state agencies in FY 2017. The numbers shown include all vehicles acquired, in continuous service, and retired from state service during the period. In Tables 3 and 4, diesel vehicles are shown as a separate entry even if they were fueled with biodiesel because diesel vehicles are not classified as AFVs.

¹⁰ Through the Standard Compliance option, state fleets that are covered under the Energy Policy Act (EPA) may meet their requirements each year by acquiring 75% AFVs as a percentage of their light-duty, non-excluded vehicle acquisitions.

Table 3 FY 2017 Number of Vehicles Operated			
Vehicle Type	Eligible Vehicles	Exempt Vehicles	All State Vehicles
Gasoline	1,914	3,496	5,410
Diesel	77	2,357	2,434
Alternative Fuel	2,431	1,941	4,372
Total	4,422	7,794	12,216

During FY 2017, the vehicle miles traveled in eligible state vehicles were 13,572,079 in gasoline and hybrid vehicles, 340,904 in diesel vehicles, and 33,302,735 in AFVs. Agencies are not required to submit the vehicle miles traveled in state vehicles that are exempt from fuel efficiency and alternative fuel reporting requirements.

Annual maintenance costs are factored into the total operating cost for state-owned vehicles. Shown in Table 4 are the annual maintenance costs incurred for the repair and upkeep of state-owned vehicles operated in FY 2017.

Table 4 FY 2017 Vehicle Maintenance Cost			
Vehicle Type	Eligible Vehicles	Exempt Vehicles	All State Vehicles
Gasoline	\$836,202	\$3,787,255	\$4,623,457
Diesel	\$82,137	\$7,929,482	\$8,011,619
Alternative Fuel	\$1,570,045	\$1,345,248	\$2,915,293
Total	\$2,488,384	\$13,061,985	\$15,550,369

Due to the differences in the collection and reporting among agencies, caution should be exercised when interpreting the reported maintenance cost numbers. For example, most agencies contract with outside vendors for vehicle repair and upkeep while some agencies employ their own vehicle maintenance staff.

IV. Average Fleet Fuel Economy

The statute requires that each agency's overall vehicle fleet fuel efficiency for eligible state vehicles meet or exceed the standards set by the federal government.

The rating system developed for measuring vehicle fuel efficiency referenced above, called CAFE, is a comprehensive fuel efficiency rating system that was developed to measure the vehicle fuel efficiency of vehicles sold in the United States. Since CAFE is an average, a company can sell vehicles that fall below the CAFE standards as long as the company's overall averages stay within the standards.

Per federal rules, starting with MY 2012 vehicles, automakers were required to reduce fleet-wide greenhouse gas emissions by approximately five percent each year and improve fleet-wide fuel economy to an estimated 40.8 mpg by MY 2020.

NHTSA is also required by the Energy Independence and Security Act of 2007 (EISA) to set a minimum fuel economy standard for domestically manufactured passenger cars in addition to the attribute-based passenger car standard. The minimum standard “shall be the greater of (A) 27.5 miles per gallon (mpg); or (B) 92 percent of the average fuel economy projected by the Secretary for the combined domestic and non-domestic passenger automobile fleets manufactured for sale in the United States by all manufacturers in the model year.” Based on NHTSA’s current market forecast, the agency’s estimates of these minimum standards under the Augural MYs 2017-2025 CAFE standards are:

- 36.7 mpg for MY 2017 passenger cars¹¹,
- 38.0 mpg for MY 2018 passenger cars, and
- 39.4 mpg for MY 2019 passenger cars.

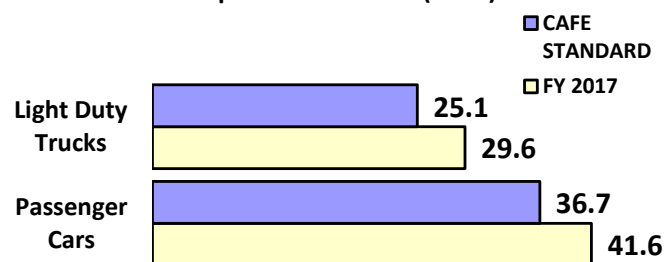
Parameters established for the light truck fuel economy minimum targets are:

- 25.1 mpg for MY 2017 light duty trucks,
- 25.2 mpg for MY 2018 light duty trucks, and
- 25.25 mpg for MY 2019 light duty trucks.

Acquisitions which are included in the computation of the average fleet fuel economy are only new vehicle acquisitions. By using this approach, emphasis is placed on the purchase of vehicles that meet or exceed the federal CAFE standards, and this approach is compatible with the federal Energy Policy Act of 2002 requirements.

As shown in Figure 1, state agencies exceeded the federal CAFE standard by purchasing new passenger cars with an average CAFE rating of 41.6 mpg. Agencies also exceeded the federal standard with new acquisitions of light-duty trucks by purchasing new light-duty trucks that earned an overall average CAFE rating of 29.6 mpg. Although other vehicles may have been purchased throughout the reporting period, only those vehicles not exempt from state vehicle fuel efficiency requirements were included in the averages.

**Figure 1 - Missouri State Fleet
Average Fleet Fuel Economy of New
Acquisition Vehicles (MPG)**

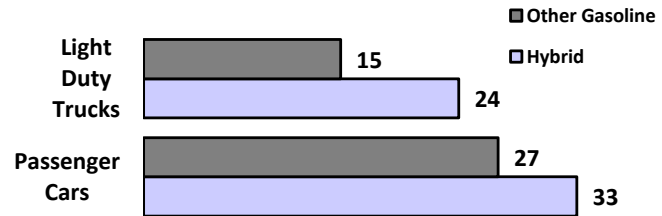


The CAFE rating system awards additional credit for purchasing alternative fuel vehicles. This higher rating can significantly increase the CAFE rating for these vehicles. Some examples of AFVs with higher ratings include the 2017 E85 Ford Focus, awarded a CAFE rating of 54.89 mpg, and the 2018 E85 Jeep Cherokee 4x4, awarded a CAFE rating of 40.69 mpg. All agencies made purchases that, on average, exceeded CAFE standards. For additional information, the CAFE ratings earned by each agency and the total ratings earned by the entire state fleet are shown in the fuel economy tables in Appendix B.

¹¹ Station wagons are included under the passenger car category while light-duty trucks include pickups, sport utility vehicles (SUVs) and vans.

To help reduce fleet operating costs, some agencies countered higher fuel prices by placing more emphasis on driving fuel-efficient hybrid vehicles. Overall, as shown in Figure 2, state hybrid passenger cars achieved an average of 6 mpg greater than that of other gasoline-powered passenger cars operated by the state fleet. In the light-duty truck category, state hybrid vehicles achieved an average of 9 mpg greater than the state's other gasoline-powered light-duty trucks.

**Figure 2 - Missouri State Fleet
Average Fleet Fuel Economy of Hybrid and
Other Gasoline Vehicles (MPG)**



Hybrid-electric vehicles (HEVs) are primarily propelled by an internal combustion engine, just like conventional vehicles. However, HEVs also convert energy normally wasted during coasting and braking into electricity through a process known as regenerative braking. This process allows the generated electricity to be stored in a battery until needed by the electric motor. The electric motor is used to assist the engine when accelerating, climbing a grade, or in low-speed driving conditions where internal combustion engines are least efficient. Unlike all-electric vehicles, HEVs do not need to be plugged into an external source of electricity to be recharged. Conventional gasoline and regenerative braking provide all the energy the vehicle needs.¹²

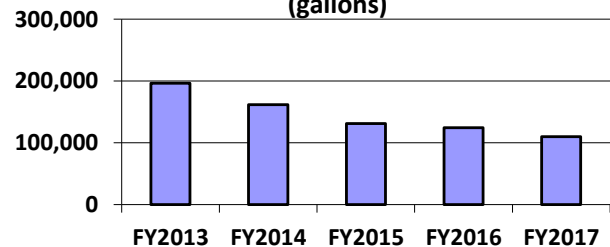
As determined by the US DOE, state fleets may satisfy their AFV-acquisition requirements in model year 2014 and later by acquiring light duty non-AFV HEVs. An agency will earn one-half credit for the acquisition of each non-AFV HEV.

V. Alternative Fuel Use and Alternative Fuel Vehicle Acquisitions

As defined by Section 414.400, RSMo, alternative fuels are those motor vehicle fuels that contribute to energy independence and improved air quality and are not substantially constituted of unleaded gasoline or diesel fuel.

Both an alternative and renewable fuel, E85 is produced from 85 percent ethanol blended with 15 percent unleaded gasoline. As shown in Figure 3, during FY 2017, state-owned E85 vehicles consumed 109,628 gallons of E85 (including exempt E85 vehicle usage) and due to limited availability, unfavorable price differential for E85 and other challenges, also consumed 1,360,085 gallons of unleaded gasoline.

**Figure 3 - Missouri State Fleet
Ethanol 85 Used in E85 Vehicles
(gallons)**



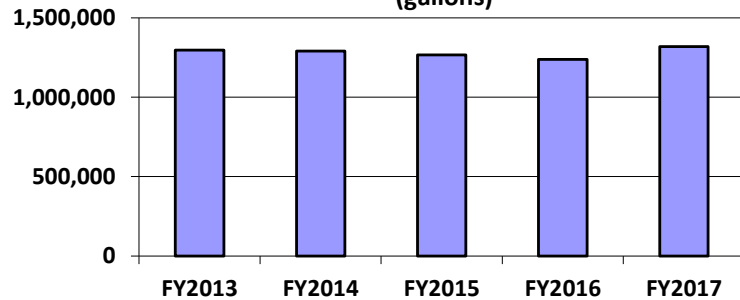
Biodiesel, another renewable alternative fuel, is used in state-owned diesel vehicles even though diesel vehicles are not classified as AFVs and are generally exempt under the statute. Biodiesel blended at levels of 20 percent or greater is defined by the U.S. Department of Energy as both an alternative and renewable fuel. For federal reporting purposes and

¹² (Source: Fuel Economy Guide, U.S. Department of Energy & U.S. Environmental Protection Agency)

for the purposes of this report, the gallons of biodiesel used at the 20 percent or greater blend levels are combined and converted to a 100 blend level equivalent in gallons. When converted to the 100 percent blend level, state diesel vehicles consumed 263,661 gallons of biodiesel during the reporting period. As shown in Figure 4, this equates to 1,318,305 gallons of biodiesel blended at the 20 percent level.

Throughout FY 2017, MoDOT and the Department of Public Safety (DPS) were the only agencies reporting biodiesel usage. MoDOT's on-site access to biodiesel fuel was a significant factor in their diesel and biodiesel consumption.

**Figure 4 - Missouri State Fleet
Biodiesel (B20) Used in Diesel Vehicles
(gallons)**

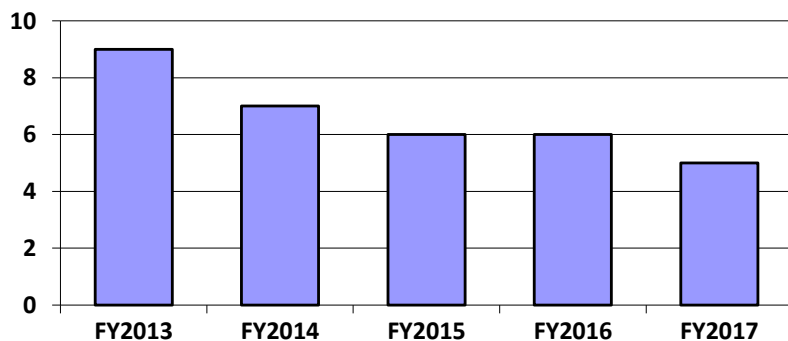


In addition to renewable fuels, alternative fuels including propane, compressed natural gas, and electricity effectively reduce automobile emissions. During the reporting period, state vehicles consumed 2,933 kWh of electricity.

Propane is offered at 13 retail outlets throughout the state and the number of compressed natural gas stations is now offered at eight (8) public retail refueling sites, as of the date of this report.

Figure 5 shows the percent of alternative fuel used by the state in alternative fuel vehicles over the last five (5) years. This number does not include the alternative fuel used in exempt AFVs and the biodiesel used in exempt diesel vehicles. The state fleet consumed 72,451 GGE of alternative fuel in eligible vehicles in FY 2017, which equates to 5% of the total fuel consumption for the included vehicle types. Total alternative fuel consumption, including exempt vehicles, is up 78,455 GGE from FY 2016.

**Figure 5 - Missouri State Fleet
Percent of Alternative Fuel Use in Alternative Fuel
Vehicles**



Many AFVs can be refueled with either the designated alternative fuel or regular unleaded gasoline. State statutes specify that 30 percent of all fuel used in state-owned AFVs should be the designated alternative fuel. However, the statute provides for state agencies to take credit toward meeting their 30 percent goal by including the use of alternative fuel in exempt vehicles in the numbers reported.

A breakout of the alternative fuel usage by fuel types (Table 5) shows the percent of alternative fuel used in state AFVs was five percent E85 in flexible fuel E85 vehicles and 31 percent biodiesel in exempt diesel vehicles. See Table 5 for the corresponding consumption numbers shown in gallons for gasoline and in GGE for the alternative fuels.

Table 5 Percent of Alternative Fuel Use In Alternative Fuel Vehicles for FY 2017					
Vehicle Fuel Type	Number of Vehicles	GAS/DSL (gal/GGE)	Alternative Fuel in GGE	Total Fuel in GGE	% Alternative Fuel Use
B20 (exempt vehicles)	2,357	3,350,739	1,476,502	4,827,241	31%
E85	2,411	1,360,085	72,363	1,432,448	5%
E85 (exempt vehicles)	1,935	2,133,865	5,804	2,139,669	0%
Propane	3	1,073	0	1,073	0%
Propane (exempt vehicles)	6	1,715	0	1,715	0%
CNG	0	0	0	0	0%
CNG (exempt vehicles)	0	0	0	0	0%
Electric	17	0	88	88	100%
Total (Eligible vehicles only)	2,431	1,361,158	72,451	1,433,609	5%
Total (Exempt vehicles only)	4,298	5,486,319	1,482,306	6,968,625	21%
Total	6,729	6,847,477	1,554,757	8,402,234	18%

Missouri statutes include acquisition requirements for AFVs. The Commissioner of OA is required by statute to ensure that at least 70 percent of state fleet vehicle purchases are flexible fuel vehicles (Section 37.455 RSMo). Of the 30 reporting state agencies, ten (10)¹³ met or exceeded the statutory requirement, nine (9) state agencies did not, and eleven (11) agencies were not required to meet the requirement.¹⁴ A summary for each state entity, the acquisitions of AFVs and the percent of alternative fuel use are shown in Appendix B.

¹³ The agencies include Office of Administration, Dept. of Corrections, Dept. of Conservation, Dept. of Elementary and Secondary Ed., Dept. of Health and Senior Services, Dept. of Insurance (DIFP), Dept. of Labor, Dept. of Mental Health, Dept. of Transportation, and the Dept. of Public Safety

¹⁴ Agencies that did not purchase any new vehicles or operated 15 or fewer eligible vehicles were not required to meet the statutory requirement.

As shown in Table 6, state agencies have AFVs stationed at several locations in Missouri. Whether or not AFVs can be refueled with the designated alternative fuel is heavily dependent on where the vehicles are located. State employees are better able to refuel the vehicles with the designated alternative fuel if doing so is convenient. Vehicle location is also important with the EPA air quality requirements for both Kansas City and St. Louis. As the state capital, Jefferson City is the hub of state government activities. Many agencies locate at least some, if not all, of their vehicles in the Jefferson City area. The types of alternative fuels available for refueling in the Jefferson City area include E85 and biodiesel.

Table 6 Number of Alternative Fuel Vehicles Based at Fleet Locations					
	FY'13	FY'14	FY'15	FY'16	FY'17
Jefferson City	716	1,269	1,322	1,487	1,589
Kansas City	433	453	449	413	411
St. Louis	296	361	377	377	389
Other	2,001	1,854	1,834	2,071	1,983
Total	3,446	3,937	3,982	4,348	4,372

VI. Operating Cost

In order to compare the operating cost of AFVs to traditional fuel vehicles, operating cost data submitted by the agencies to the division is converted into an average operating cost per mile. As shown in Table 7 for eligible vehicles, the vehicle operating costs are broken out by maintenance, fuel and the total cost.

Table 7 Average Eligible Vehicle Operating Cost for FY 2017 (in cents per mile)			
Vehicle Type	Maintenance	Fuel	Total
Gas Auto	3.8	7.1	10.9
Gas Truck	7.8	12.4	20.1
Hybrid Auto	4.4	6.2	10.6
Hybrid Truck	5.5	8.0	13.5
Diesel Auto	-	-	-
Diesel Truck	24.1	21.9	46.0
E85 Auto	4.7	7.4	12.1
E85 Truck	4.6	9.9	14.6
LPG Truck	2.6	12.5	15.0
Electric	71.0 ¹⁵	4.4	75.4

¹⁵ High maintenance cost per mile for electric vehicles was due primarily to relatively low number of vehicles and miles driven. It is expected that mileage will increase as recharging infrastructure becomes more widespread across the state and lead to greater utilization of EVs, thus reducing cost per mile.

VII. Program Status

Participating state agencies submitted annual operating data on agency vehicle operations and acquisitions made during fiscal year 2017. In recent years, a majority of vehicle purchases in all agencies have met CAFE standards, and as a result the average fuel efficiency realized for cars and light trucks operated by agencies is expected to significantly increase in the coming years. Compliance with the purchasing requirements is tracked by Office of Administration, MoDOT, Department of Conservation and higher education institutions.

The numbers and types of AFVs currently available to state agencies and the public from manufacturers are steadily increasing. All major U.S. vehicle manufacturers are producing AFVs and have indicated they will soon offer substantially more EV models having an increased range compared to current models. The number of publicly available alternative fuel stations¹⁶ is also increasing mainly due to the sharp rise in electric charging infrastructure. At the time of printing this report, 94 E85 refueling stations and eight public CNG refueling stations were operating in the state. Thirteen propane refueling sites are located throughout Missouri. In addition, 370 electric recharging stations and 1,586 charging outlets were operating in the state.

Over the past year, one factor in the reduced use of E85 was the unfavorable price differential with conventional gasoline on an energy equivalence basis. On this basis, according to the Alternative Fuels Data Center June 2016 Alternative Fuel Price Report, the average price of E85 was 33 cents above the price of gasoline. By the release of the April 2017 report, this price differential jumped to 36 cents. The division and industry representatives have worked to encourage further use of alternative fuels in the appropriate AFVs. Information tools made available to encourage alternative fuel use include the following:

- Alternative fueling station locator [iPhone](#) and [Android](#) apps have been provided to state fleet managers to pass on to their respective agencies as a means for easily locating alternative fueling stations. The division worked with ITSD to make it a standard application provided on state issued phones.
- MoDOT installed signage for E85 availability along divided highways at exits where alternative fuels are available. In addition, the department has designed alternative fuel signs for state agencies to place at their respective fleet lots. These signs remind state employees to refuel with the appropriate alternative fuel in AFVs whenever possible.
- OA carpool vehicles have clearly designated insignia relating to FFVs.
 - Packets/binders are provided to users of carpool vehicles that are color coded indicating whether the vehicle is E85-capable – white packets indicate E85-capable.
 - Packets for FFVs include a bannered cover page which says “This is a flex-fuel vehicle. Please use E85 whenever possible.”
 - Packets for FFVs include a page highlighting Jefferson City E85 locations as well as a listing of E85 stations in Missouri.
 - Any carpool FFVs that do not have the manufacturer provided yellow fuel caps indicating

¹⁶ The Alternative Fuels Data Center publishes a listing of alternative refueling locations at www.afdc.energy.gov/locator/stations/. The Missouri Soybean Association publishes a listing of biodiesel suppliers at www.mosoy.org. The Missouri Propane Gas Association (www.missouripropane.com) in Jefferson City has an on-line directory of propane refueling locations.

E85-capable have E85 window stickers in a visible location identifying them as E85-capable vehicles.

- o Carpool Trip Tickets that accompany each packet for FFVs include a “Fueling” paragraph that reiterates the vehicle is an FFV and advocates use of E85.
- The State Fleet Management web page contains a dedicated page on [Alternative Fuels](#) which provides helpful information regarding alternative fuels and station locations.
- An online link to E85 station listings (<https://www.afdc.energy.gov/>) is available for agencies to distribute through agency e-mails.
- Colored labels for vehicle packets are available from the division to identify AFVs and provide local directions to refueling facilities. E85 magnets, static window stickers, and fuel door stickers are also available from the division.
- E85 pumps at each gas station are prominently labeled.

VIII. Program Recommendations

The following recommendations are based on guidance provided within Missouri Revised Statutes, Sections 414.400 – 414.417, the annual reports submitted by the agencies to the division, and through a survey of state fleet managers prior to the 2015 State Fleet Managers Workshop:

- Encourage public and private partnerships that commit to the development of alternative fuel infrastructure in the state.
- Continue to promote stakeholder involvement in the planning regarding VW Settlement funding allocated to the state.
- Encourage the utilization of the Energy Loan Program for funding public, alternative fuel transportation.
- Encourage the utilization of federal income tax credits for electric and plug-in hybrid cars purchased during or after 2010.
- Encourage state employees to carpool and use mass transit. The State Cafeteria Plan (<http://asiflex.com/>) has mass transit benefits available.
- Expand the use of telecommunication systems and telework policies to decentralize work and reduce the need for travel to meetings, conferences and other offices. Consider options, such as e-mail, facsimile, webinars and teleconferencing, to reduce the need for travel.
- Continue to provide information and promote activities that effectively increase the use of alternative fuels in AFVs. The division and other organizations should continue to encourage agencies to purchase AFVs and promote the use of alternative fuel as a replacement for traditional vehicle fuels.
- Promote training of state employees in the operation of AFVs and refueling with alternative fuels

to increase their comfort in using alternative fuels.

- Advance placement of AFVs at agency locations closest to refueling locations selling the alternative fuel used as well as foster installation of additional alternative fuel refueling stations across the state.

The following recommendation is from the Comprehensive State Energy Plan.

- Eliminate the technology-specific procurement policies for new state fleet vehicles and, instead, require adherence to fleet performance goals.

IX. Looking Ahead

One of the recommendations from the Comprehensive State Energy Plan, as well as the Governor's task force, was to remove the fuel specific purchasing requirement for alternative fuel vehicles in order to achieve the greatest efficiency and lowest cost to the state over the life of the vehicle being purchased. To meet these recommendations, on May 10, 2018, a Memorandum of Understanding (MOU) was entered into by the Office of Administration, the Department of Economic Development and the Department of Natural Resources. This MOU clarifies the waiver authority provided in Section 414.412.1 RSMO. The Office of Administration will begin utilizing this waiver authority for vehicle classes in which alternative fuel vehicles are unable to be acquired or cannot be operated within statutory cost parameters. Although alternative fuel vehicle purchasing requirements may be waived for certain vehicle classes in a particular year, any alternative fuel vehicle being utilized in the state fleet is still subject to the alternative fuel use requirement set forth in 414.400.2 RSMO.

Appendices

Appendix A

Federal and Missouri Alternative Fuel Acts: Comparison of Key Provisions

Clean Air Act Public Law 101-549	Energy Policy Act Public Law 102-486	Missouri Sections 414.400 – 417, RSMo, 1999
Applicability		
Twenty-two metropolitan areas with populations of 250,000 or more (1980 census) with serious, severe or extreme ozone or carbon monoxide areas.	Metropolitan areas with a 1980 population of 250,000 or more.	All state-owned vehicles throughout the state.
Fleets Subject to Act		
Fleets of 10 or more vehicles which are centrally fueled or capable of being centrally fueled.	Fleets with at least 20 vehicles which are centrally fueled or capable of being centrally fueled in a metropolitan area; however, this requirement applies only if a fleet also has at least 50 vehicles within the United States.	State-owned fleets with more than 15 vehicles.
Exemptions		
Vehicles that are garaged at a personal residence overnight are to be considered not capable of central fueling. Law enforcement vehicles. Emergency vehicles.	Private fleet vehicles that are garaged at home overnight are exempted. Law enforcement vehicles. The secretary of energy may terminate this exemption. Emergency vehicles.	Off-road vehicles, maintenance and construction vehicles and transport trailers. Law enforcement vehicles. Emergency vehicles.
Fuels		
Any fuel meeting the emission standard may be used, including reformulated gasoline, clean diesel, ethanol, methanol, propane, electricity and natural gas.	Alternative fuels include methanol, ethanol, natural gas, propane, biodiesel and electricity. Reformulated gasoline is not considered to be an alternative fuel.	Alternative fuels include 85 percent methanol, 85 percent ethanol, natural gas, propane, 20 percent biodiesel, hydrogen and electricity. Reformulated gasoline is not considered to be an alternative fuel.

Clean Air Act Public Law 101-549	Energy Policy Act Public Law 102-486	Missouri Sections 414.400 – 417, RSMo, 1999
Weight Limits		
Includes automobiles and trucks up to 26,000 pounds gross vehicle weight.	Includes vehicles with a gross vehicle weight of less than or equal to 8,500 pounds.	For reporting purposes, state agencies are including only those eligible vehicles less than or equal to 8,500 pounds GVWR.
Purchase Requirements		
Beginning with model year 1998.	Standard Compliance Option ¹⁷ - beginning with designated model year: State fleet - 75% of light-duty, non-excluded vehicles acquired must be alternative fuel vehicles.	Acquire vehicles capable of using alternative fuels: 70 percent after Jan.1, 2008. (Section 37.455) By July 1, 2002, 30 percent of fuel used in AFVs must be an alternative fuel.
Vehicle And Fuel Availability		
There are no exemptions provided in the law in the event vehicles or fuel are not available.	The secretary of energy must exempt a fleet if vehicles or fuels are not available.	May reduce any percentage specified or waive requirements upon receipt of certification supported by evidence that: 1) Fuels are not available. 2) Fuels do not meet cost limitations. 3) Fuels do not meet energy conservation or emissions criteria.

¹⁷ The Energy Policy Act provides for Alternative Compliance in which covered fleets may obtain a waiver from Standard Compliance to implement petroleum reduction measures in their vehicle fleets in lieu of the AFV-acquisition requirements.

Missouri Revised Statutes
Chapter 414

Fuel Regulation and Conservation
Section 414.400

<http://www.moga.mo.gov/mostatutes/stathtml/41400004001.html>

Fuel Regulation and Conservation
Section 414.403

<http://www.moga.mo.gov/mostatutes/stathtml/41400004031.html>

Fuel Regulation and Conservation
Section 414.406

<http://www.moga.mo.gov/mostatutes/stathtml/41400004061.html>

Fuel Regulation and Conservation
Section 414.410

<http://www.moga.mo.gov/mostatutes/stathtml/41400004101.HTML>

Fuel Regulation and Conservation
Section 414.412

<http://www.moga.mo.gov/mostatutes/stathtml/41400004121.html>

Fuel Regulation and Conservation
Section 414.415

<http://www.moga.mo.gov/mostatutes/stathtml/41400004151.html>

Fuel Regulation and Conservation
Section 414.417

<http://www.moga.mo.gov/mostatutes/stathtml/41400004171.HTML>

Chapter 37
Office of Administration
Section 37.455.1

<http://www.moga.mo.gov/mostatutes/stathtml/03700004551.html>

Executive Order 95-05

http://www.sos.mo.gov/library/reference/orders/1995/eo1995_005.asp

Executive Order 13-03

http://www.sos.mo.gov/library/reference/orders/2013/eo13_003

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Appendix B

Definitions and Unit Consumption Conversion Table of Motor Vehicle Fuels

Exempt vehicles are vehicles operated by state agencies and designated for duties that exempt the vehicles from vehicle fuel efficiency and alternative fuel requirements. These duties include off-road, maintenance, construction, trailer transport, law enforcement and emergency vehicles. Exempt vehicles also include vehicles that exceed the 8,500 gross vehicle weight rating (GVWR).

Eligible or non-exempt vehicles are those vehicles operated by state agency fleets that are required to meet vehicle fuel efficiency and alternative fuel requirements. Most eligible vehicles are used primarily for commuting from one location to another on established roadways.

Gasoline Gallon Equivalents (GGE) is used as a unit of measure for alternative fuels. GGE is based on the fuel's energy content rather than the at-the-pump unit of measure normally shown in unit volume. An example of this is the comparison of a gallon of E85 to a gallon of gasoline. Since the energy content of E85 is less than that of gasoline, one gallon of E85 is equivalent to 0.7130 gallons of gasoline. As applied throughout this report, check Appendix C for more information on the conversion of alternative fuels from at-the-pump units of consumption to GGE.

As defined by Section 414.400, RSMo, alternative fuels are those motor vehicle fuels that are not substantially unleaded gasoline or diesel, and otherwise contribute to potential energy security and environmental benefits. Gasoline gallon equivalent (GGE) is used throughout the report as a unit of measure for alternative fuels. GGE is based on the fuel's energy content rather than the at-the-pump unit of measure, normally shown in unit volume. An example of this is the comparison of a gallon of 85 percent ethanol (E85) to a gallon of gasoline. Since the energy content of E85 is less than that of gasoline, one gallon of E85 is equivalent to 0.7130 gallons of gasoline.

Unit Consumption Conversion Table of Vehicle Motor Fuels, At-the-Pump Units to GGE

Fuel Type	At-the-Pump Units	BTU/Unit	GGE/Unit
Gasoline	Gallon	115,000	1.0000
E85	Gallon	82,000	0.7130
Propane	Gallon	89,000	0.7739
CNG	Cubic Feet	1,000	0.0087
Diesel	Gallon	130,000	1.1304
Biodiesel (20)	Gallon	128,800	1.1200
Biodiesel (100)	Gallon	124,200	1.0800
Electric	Kilowatt hour	3,413	0.0297

Appendix C

Missouri State Fleet Performance Measurement Tables

Average Fleet Fuel Economy

New Acquisition Passenger Cars..... C-2

New Acquisition Light-Duty Trucks..... C-3

Percent Alternative Fuel Vehicles

New Vehicle Acquisitions..... C-4

Percent Alternative Fuel Usage in Alternative Fuel Vehicles

B20 and Exempt Usage Not Included C-5

B20 and Exempt Usage Included..... C-6

**AVERAGE FLEET FUEL ECONOMY
NEW ACQUISITION PASSENGER CARS**

**MISSOURI STATE FLEET
FISCAL YEAR 2017**

The CAFE standard for newly built passenger cars is 36.7 MPG. In the following table, the average vehicle fuel efficiency of new acquisition passenger cars is shown for each agency. Passenger cars include both cars and station wagons that are eligible to meet vehicle fuel efficiency standards. If an agency is not shown, the agency did not report acquiring any new passenger cars that were eligible to meet state vehicle fuel efficiency requirements throughout the fiscal year.

DEPARTMENT OF INSURANCE, FIN. INSTITUTIONS AND PROF. REGISTRATION	55.0
DEPARTMENT OF HEALTH AND SENIOR SERVICES	52.8
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	49.0
DEPARTMENT OF MENTAL HEALTH	47.3
NORTHWEST MISSOURI STATE UNIVERSITY	44.3
OFFICE OF ADMINISTRATION	44.3
DEPARTMENT OF NATURAL RESOURCES	40.3
DEPARTMENT OF SOCIAL SERVICES	39.3
DEPARTMENT OF TRANSPORTATION	38.4
DEPARTMENT OF CORRECTIONS	33.3
DEPARTMENT OF ECONOMIC DEVELOPMENT	32.5
DEPARTMENT OF REVENUE	32.5
UNIVERSITY OF MISSOURI	31.4
MISSOURI STATE FLEET AVERAGE	41.6

**AVERAGE FLEET FUEL ECONOMY
NEW ACQUISITION LIGHT DUTY TRUCKS**

**MISSOURI STATE FLEET
FISCAL YEAR 2017**

The CAFE standard for newly built light duty trucks is 25.1 MPG. In the following table, the average vehicle fuel efficiency of all new acquisition light duty trucks is shown for each agency. Light duty trucks include trucks, vans and SUVs that are eligible to meet vehicle fuel efficiency standards. If an agency is not shown, the agency did not report acquiring any new light duty trucks that were eligible to meet state vehicle fuel efficiency requirements throughout the fiscal year.

DEPARTMENT OF CONSERVATION	33.9
DEPARTMENT OF TRANSPORTATION	33.8
DEPARTMENT OF SOCIAL SERVICES	33.6
DEPARTMENT OF MENTAL HEALTH	33.3
OFFICE OF ADMINISTRATION	33.3
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	32.6
DEPARTMENT OF PUBLIC SAFETY	32.4
DEPARTMENT OF CORRECTIONS	30.0
UNIVERSITY OF MISSOURI	28.8
MISSOURI STATE UNIVERSITY	28.5
DEPARTMENT OF AGRICULTURE	28.0
DEPARTMENT OF NATURAL RESOURCES	25.5
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	24.9
LINCOLN UNIVERSITY	23.6
NORTHWEST MISSOURI STATE UNIVERSITY	21.1
MISSOURI STATE FLEET AVERAGE	29.6

**PERCENT ALTERNATIVE FUEL VEHICLES
OF ALL NEW VEHICLE ACQUISITIONS**

**MISSOURI STATE FLEET
FISCAL YEAR 2017**

Agencies that operate less than 16 eligible vehicles are not subject to program acquisition requirements, therefore only agencies that operate greater than 15 eligible vehicles are shown in the following table. At least 70 percent of an agency's fleet vehicle acquisitions over a one year period shall be vehicles capable of using alternative fuels. In keeping with US DOE guidelines, beginning with FY 2014, only ½ credit will be awarded for the purchase of hybrid vehicles.

DEPARTMENT OF CONSERVATION (4)*	100.0%
DEPARTMENT OF INSURANCE, FIN. INSTITUTIONS AND PROF. REGISTRATION (7)	100.0%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (1)	100.0%
DEPARTMENT OF PUBLIC SAFETY (9)	100.0%
DEPARTMENT OF HEALTH AND SENIOR SERVICES (9)	88.9%
DEPARTMENT OF MENTAL HEALTH (40)	87.5%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (7)	85.7%
DEPARTMENT OF TRANSPORTATION (44)	81.8%
DEPARTMENT OF CORRECTIONS (43)	74.4%
OFFICE OF ADMINISTRATION (29)	72.4%
DEPARTMENT OF SOCIAL SERVICES (104)	64.4%
DEPARTMENT OF AGRICULTURE** (29)	48.3%
UNIVERSITY OF MISSOURI (26)	15.4%
DEPARTMENT OF NATURAL RESOURCES (7)	14.3%
NORTHWEST MISSOURI STATE UNIVERSITY (7)	7.1%
DEPARTMENT OF REVENUE (2)	0%
DEPARTMENT OF ECONOMIC DEVELOPMENT (2)	0%
MISSOURI STATE UNIVERSITY (4)	0%
LINCOLN UNIVERSITY (1)	0%
AGENCIES WITH GREATER THAN 15 VEHICLES (375)	65.3%

*Total number of eligible new vehicle acquisitions

**Ordered 12 flex-fuel Dodge Journeys off state contract that arrived as conventional fuel only.

**PERCENT ALTERNATIVE FUEL USAGE
IN ALTERNATIVE FUEL VEHICLES - B20 AND
EXEMPT USAGE NOT INCLUDED**

**MISSOURI STATE FLEET
FISCAL YEAR 2017**

Since agencies that operate less than 16 eligible vehicles are not subject to the 30 percent alternative fuel usage requirement described in RSMo 414.400 - 414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. If no number appears, the agency did not report any alternative fuel usage.

MISSOURI STATE UNIVERSITY (9,736)*	100%
SECRETARY OF STATE (3,926)	29%
UNIVERSITY OF MISSOURI (45,222)	28%
DEPARTMENT OF TRANSPORTATION (48,456)	13%
OFFICE OF ADMINISTRATION (118,380)	7%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (6,293)	6%
DEPARTMENT OF ECONOMIC DEVELOPMENT (9,636)	5%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (25,003)	5%
DEPARTMENT OF CORRECTIONS (231,631)	5%
DEPARTMENT OF AGRICULTURE (109,350)	4%
LINCOLN UNIVERSITY (1,641)	4%
DEPARTMENT OF SOCIAL SERVICES (380,853)	3%
DEPARTMENT OF HEALTH AND SENIOR SERVICES (48,929)	2%
DEPARTMENT OF MENTAL HEALTH (136,215)	1%
DEPARTMENT OF INSURANCE (FIN/PR/CREDIT UNIONS) (26,575)	1%
DEPARTMENT OF NATURAL RESOURCES (99,746)	1%
DEPARTMENT OF PUBLIC SAFETY (49,282)	0%
DEPARTMENT OF REVENUE (18,389)	0%
OTHER STATE ORGANIZATIONS (11,197)	0%
DEPARTMENT OF CONSERVATION (22,188)	0%
NORTHWEST MISSOURI STATE UNIVERSITY (3,978)	0%
SOUTHEAST MISSOURI STATE UNIVERSITY (13,957)	0%
TRUMAN STATE UNIVERSITY (8,332)	0%
UNIVERSITY OF CENTRAL MISSOURI (3,903)	0%
MISSOURI STATE FLEET (1,433,606)	5%

*Total fuel consumption in GGE

**PERCENT ALTERNATIVE FUEL USAGE
IN NON-EXEMPT AND EXEMPT ALTERNATIVE FUEL
VEHICLES – B20 USAGE INCLUDED IN DIESEL
VEHICLES**

**MISSOURI STATE FLEET
FISCAL YEAR 2017**

Since agencies that operate less than 16 eligible vehicles are not subject to the 30 percent alternative fuel usage requirement described in RSMo 414.400 - 414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. If no number appears, the agency did not report any alternative fuel usage.

MISSOURI STATE UNIVERSITY (9,736)*	100%
DEPARTMENT OF TRANSPORTATION (3,470,152)	32%
SECRETARY OF STATE (4,458)	26%
UNIVERSITY OF MISSOURI (159,874)	8%
DEPARTMENT OF ECONOMIC DEVELOPMENT (9,636)	5%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (6,930)	5%
OFFICE OF ADMINISTRATION (153,510)	5%
LINCOLN UNIVERSITY (1,641)	4%
DEPARTMENT OF SOCIAL SERVICES (389,138)	3%
DEPARTMENT OF CORRECTIONS (539,539)	3%
DEPARTMENT OF AGRICULTURE (166,729)	3%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (58,209)	2%
DEPARTMENT OF HEALTH AND SENIOR SERVICES (50,318)	2%
DEPARTMENT OF MENTAL HEALTH (156,914)	1%
DEPARTMENT OF INSURANCE (FIN/PR/CREDIT UNIONS) (26,575)	1%
DEPARTMENT OF PUBLIC SAFETY (1,228,777)	0%
DEPARTMENT OF NATURAL RESOURCES (247,728)	0%
SOUTHEAST MISSOURI STATE UNIVERSITY (35,430)	0%
DEPARTMENT OF REVENUE (22,785)	0%
DEPARTMENT OF CONSERVATION (380,231)	0%
OTHER STATE ORGANIZATIONS (11,663)	0%
UNIVERSITY OF CENTRAL MISSOURI (7,591)	0%
TRUMAN STATE UNIVERSITY (16,518)	0%
NORTHWEST MISSOURI STATE UNIVERSITY (37,664)	0%
TOTAL ALT-FUEL VEHICLES (7,210,483)	18%

EXEMPT DIESEL VEHICLES

DEPARTMENT OF TRANSPORTATION (2,811,146)	37%
DEPARTMENT OF PUBLIC SAFETY (21,888)	17%
TOTAL B20 USAGE (3,635,493)	30%

MISSOURI STATE FLEET **18%**

*Total fuel consumption in GGE

Appendix D

State Fleet Summary Tables and Fleet Data by State Agency

Missouri State Fleet	D-3
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Elected Officials

Attorney General	D-4
Secretary of State	D-5
State Auditor	D-6
State Treasurer	D-7

Executive Departments

Department of Agriculture	D-8
Department of Conservation	D-9
Department of Corrections.....	D-10
Department of Economic Development.....	D-11
Department of Elementary and Secondary Education.....	D-12
Department of Health and Senior Services	D-13
Department of Higher Education	D-14
Department of Insurance, Financial Institutions and Professional Registration.....	D-15
Department of Labor and Industrial Relations	D-16
Department of Mental Health	D-17
Department of Natural Resources.....	D-18
Department of Public Safety.....	D-19
Department of Revenue	D-20

Department of Social Services	D-21
Department of Transportation	D-22
Office of Administration	D-23
Other State Organizations	D-24

Higher Education

Lincoln University.....	D-25
Missouri Southern State University	D-26
Missouri State University.....	D-27
Missouri Western State University	D-28
Northwest Missouri State University.....	D-29
Southeast Missouri State University.....	D-30
Truman State University	D-31
University of Central Missouri	D-32
University of Missouri	D-33

**SUMMARY TABLE
VEHICLE OPERATIONS**

**MISSOURI STATE FLEET
Fiscal Year 2017**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	474		5,309,878	188,879		\$376,316		\$201,875
	LDTs, Vans and SUVs	1,419		8,050,748	527,982		\$997,286		\$624,790
	Exempt Vehicles	2,173	1,323		3,616,732		\$6,976,227		\$3,787,255
Hybrid Electric	Cars and Station Wagons	18		185,877	5,691		\$11,597		\$8,134
	LDTs, Vans and SUVs	3		25,576	1,061		\$2,041		\$1,404
	Exempt Vehicles								
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	77		340,904	44,734	0	\$74,770	\$0	\$82,137
	Exempt Vehicles	165	2,192		2,965,256	263,661	\$5,961,231	\$515,043	\$7,929,482
E85	Cars and Station Wagons	1,363		20,301,068	732,083	57,773	\$1,417,920	\$85,962	\$962,680
	LDTs, Vans and SUVs	1,048		12,973,840	628,002	43,715	\$1,206,981	\$82,456	\$598,781
	Exempt Vehicles	1,627	308		2,133,865	8,140	\$4,014,273	\$14,351	\$1,343,815
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs	3		16,325	1,073	0	\$2,033	\$0	\$416
	Exempt Vehicles	0	6		1,715	0	\$3,196	\$0	\$1,434
All Electric	LDTs, Vans and SUVs	17		11,502		2,933		\$501	\$8,167

Many management functions of the Missouri State Fleet in Jefferson City are centralized under the Office of Administration. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table was provided by the Missouri State Agencies that use on-road and off-road vehicles to accomplish their official duties.

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE
VEHICLE OPERATIONS**

**ATTORNEY GENERAL
Fiscal Year 2017**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	3	0		221		\$424		\$520
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons								
	LDTs, Vans and SUVs	1		8,088	338	0	\$674	\$0	\$120
	Exempt Vehicles	21	0		12,959	0	\$24,647	\$0	\$14,156
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

Many management functions of the Missouri State Fleet in Jefferson City are centralized under the Office of Administration. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table was provided by the Missouri State Agencies that use on-road and off-road vehicles to accomplish their official duties.

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

SECRETARY OF STATE
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	3		29,681	641		\$1,340		\$1,442
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	1		471	0	\$1,082	\$0	\$2,898
E85	Cars and Station Wagons	9		104,061	2,030	1,224	\$4,156	\$2,333	\$4,595
	LDTs, Vans and SUVs	4		28,336	750	384	\$1,588	\$760	\$1,992
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

Many management functions of the Missouri State Fleet in Jefferson City are centralized under the Office of Administration. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table was provided by the Missouri State Agencies that use on-road and off-road vehicles to accomplish their official duties.

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

STATE AUDITOR
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs	1		701	63		\$132		\$2,058
	Exempt Vehicles								
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

STATE TREASURER
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs	1		832	85		\$162		\$126
	Exempt Vehicles								
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons	1		8,460	319	0	\$621	\$0	\$406
	LDTs, Vans and SUVs								
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF AGRICULTURE
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	3		39,822	1,312		\$2,649		\$638
	LDTs, Vans and SUVs	36		432,179	20,340		\$40,591		\$9,313
	Exempt Vehicles	1	18		31,776		\$64,782		\$16,820
Hybrid Electric	Cars and Station Wagons	1		18,050	666		\$1,383		\$477
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	18		32,164	0	\$71,813	\$0	\$31,778
E85	Cars and Station Wagons	52		803,211	26,958	1,995	\$54,820	\$3,676	\$23,847
	LDTs, Vans and SUVs	100		1,794,082	78,559	3,381	\$157,769	\$6,391	\$62,430
	Exempt Vehicles	2	13		20,451	818	\$42,154	\$1,645	\$11,064
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF CONSERVATION
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs	15		149,712	8,933		\$17,320		\$20,412
	Exempt Vehicles	544	273		863,130		\$1,743,963		\$1,279,283
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	6	130		181,140		\$416,297		\$232,368
E85	Cars and Station Wagons	15		133,158	4,855		\$9,379		\$14,122
	LDTs, Vans and SUVs	40		377,634	17,301	46	\$34,762	\$76	\$39,835
	Exempt Vehicles	137			153,312	59	\$313,094	\$96	\$206,009
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF CORRECTIONS
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	33		332,131	14,879		\$28,375		\$12,452
	LDTs, Vans and SUVs	30		148,550	9,699		\$18,046		\$8,190
	Exempt Vehicles	126	175		151,289		\$277,744		\$90,049
Hybrid Electric	Cars and Station Wagons	1		553	27		\$56		\$0
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs	1		2,104	192	0	\$344	\$0	\$39
	Exempt Vehicles	0	98		220,835	0	\$436,489	\$0	\$227,951
E85	Cars and Station Wagons	168		2,482,353	101,505	8,739	\$195,772	\$15,592	\$130,220
	LDTs, Vans and SUVs	153		2,677,114	117,105	8,687	\$223,096	\$15,610	\$74,442
	Exempt Vehicles	16	43		54,652	2,802	\$99,852	\$5,049	\$19,554
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs	2		8,880	596	0	\$1,120	\$0	\$306
	Exempt Vehicles	0	6		1,715	0	\$3,196	\$0	\$1,434
All Electric	LDTs, Vans and SUVs								

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SUMMARY TABLE

VEHICLE OPERATIONS

DEPARTMENT OF ECONOMIC DEVELOPMENT

Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	4		17,448	563		\$1,141		\$872
	LDTs, Vans and SUVs	1		18,098	719		\$1,306		\$862
	Exempt Vehicles	0	1		76		\$161		\$257
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons	11		100,207	3,235	625	\$6,224	\$1,141	\$9,739
	LDTs, Vans and SUVs	10		125,116	5,876	111	\$11,036	\$217	\$2,084
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	8		91,138	2,959		\$5,830		\$2,973
	LDTs, Vans and SUVs	1		6,441	304		\$633		\$147
	Exempt Vehicles	0	6		907		\$1,764		\$45
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	37		29,181	0	\$65,349	\$0	\$46,125
E85	Cars and Station Wagons	34		522,569	16,421	1,383	\$32,692	\$2,485	\$17,653
	LDTs, Vans and SUVs	16		167,854	7,236	505	\$14,683	\$846	\$5,478
	Exempt Vehicles	0	1		232	0	\$455	\$0	\$0
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF HEALTH AND SENIOR SERVICES
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	5		88,331	2,870		\$5,993		\$2,500
	LDTs, Vans and SUVs	1		509	91		\$192		\$112
	Exempt Vehicles	0	2		1,331		\$2,786		\$3,920
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	1		922	0	\$2,125	\$0	\$1,800
E85	Cars and Station Wagons	71		1,400,657	42,833	1,198	\$89,870	\$2,052	\$62,045
	LDTs, Vans and SUVs	7		108,145	5,182	83	\$10,731	\$152	\$14,264
	Exempt Vehicles	0	1		347	0	\$737	\$0	\$169
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF HIGHER EDUCATION
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	1		6,624	211		\$400		\$125
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons	1		3,255	69	70	\$128	\$125	\$648
	LDTs, Vans and SUVs								
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE

DEPARTMENT OF INSURANCE, FINANCIAL INSTITUTIONS AND PROFESSIONAL REGISTRATION

VEHICLE OPERATIONS

Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	8		144,072	4,981		\$10,190		\$4,651
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Hybrid Electric	Cars and Station Wagons	1		7,853	272		\$580		\$170
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons	48		706,749	24,383	258	\$50,093	\$445	\$30,454
	LDTs, Vans and SUVs	6		44,420	1,954	78	\$4,104	\$151	\$1,970
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs	13		122,666	5,551		\$11,496		\$4,578
	Exempt Vehicles	5	0		2,118		\$4,381		\$3,302
Hybrid Electric	Cars and Station Wagons	1		15,485	426		\$895		\$62
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	1		564	0	\$1,311	\$0	\$599
E85	Cars and Station Wagons	6		62,142	2,082	409	\$4,127	\$736	\$7,867
	LDTs, Vans and SUVs	6		84,669	3,844	106	\$7,828	\$225	\$1,090
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF MENTAL HEALTH
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	36		236,836	11,241		\$21,897		\$30,859
	LDTs, Vans and SUVs	52		279,278	22,734		\$45,040		\$32,825
	Exempt Vehicles	0	41		13,932		\$25,227		\$21,796
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	13		8,086	0	\$16,057	\$0	\$18,104
E85	Cars and Station Wagons	153		1,713,133	68,881	2,093	\$126,893	\$3,916	\$131,657
	LDTs, Vans and SUVs	129		1,312,645	65,728	158	\$133,478	\$298	\$119,800
	Exempt Vehicles	0	23		11,380	255	\$20,255	\$347	\$6,646
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF NATURAL RESOURCES
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	13		155,759	5,269		\$10,345		\$3,631
	LDTs, Vans and SUVs	102		1,008,285	48,866		\$97,919		\$54,525
	Exempt Vehicles	98	78		110,640		\$212,974		\$96,508
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	86		77,971	0	\$159,455	\$0	\$101,880
E85	Cars and Station Wagons	56		567,409	20,030	181	\$41,588	\$353	\$28,587
	LDTs, Vans and SUVs	137		1,468,182	78,509	843	\$155,803	\$1,582	\$44,734
	Exempt Vehicles	66	15		59,805	97	\$119,354	\$184	\$41,981
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs	1		7,445	477	0	\$913	\$0	\$110
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF PUBLIC SAFETY
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	18		207,051	12,218		\$22,771		\$4,305
	LDTs, Vans and SUVs	24		271,463	16,327		\$28,945		\$8,111
	Exempt Vehicles	540	57		1,007,883		\$1,839,019		\$903,260
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	4	31		18,631	774	\$36,811	\$1,509	\$48,714
E85	Cars and Station Wagons	45		696,085	35,027	50	\$53,328	\$111	\$24,864
	LDTs, Vans and SUVs	31		270,948	14,178	59	\$27,471	\$115	\$12,926
	Exempt Vehicles	817	102		1,156,258	1,891	\$2,113,975	\$2,815	\$564,183
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF REVENUE
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	8		122,690	3,662		\$6,966		\$2,177
	LDTs, Vans and SUVs	1		4,247	306		\$593		\$995
	Exempt Vehicles	4	1		2,801		\$5,200		\$3,161
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	1		925	0	\$1,959	\$0	\$1,200
E85	Cars and Station Wagons	20		212,794	8,660	11	\$16,306	\$21	\$13,849
	LDTs, Vans and SUVs	13		224,422	9,723	0	\$18,068	\$0	\$6,546
	Exempt Vehicles	5	0		3,350	0	\$6,267	\$0	\$4,474
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF SOCIAL SERVICES
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	62		1,095,550	37,739		\$78,107		\$27,035
	LDTs, Vans and SUVs	16		370,776	15,648		\$31,648		\$11,501
	Exempt Vehicles	1	87		35,167		\$72,349		\$100,990
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	3		4,386	0	\$9,988	\$0	\$3,938
E85	Cars and Station Wagons	378		6,275,283	241,973	16,499	\$476,865	\$10,602	\$292,538
	LDTs, Vans and SUVs	127		2,374,567	126,112	1,408	\$213,758	\$2,586	\$80,049
	Exempt Vehicles	5	0		3,329	0	\$6,796	\$0	\$3,252
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

DEPARTMENT OF TRANSPORTATION
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	25		290,617	9,764		\$18,515		\$14,129
	LDTs, Vans and SUVs	34		447,476	24,743		\$45,667		\$20,792
	Exempt Vehicles	527	382		1,126,827		\$2,144,941		\$800,851
Hybrid Electric	Cars and Station Wagons	2		12,546	440		\$825		\$2,693
	LDTs, Vans and SUVs	1		10,758	426		\$762		\$1,049
	Exempt Vehicles								
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs								
	Exempt Vehicles	91	1,691		2,236,485	262,887	\$4,412,519	\$513,534	\$6,984,534
E85	Cars and Station Wagons	82		1,069,348	31,604	7,404	\$60,161	\$14,009	\$43,049
	LDTs, Vans and SUVs	24		236,380	10,729	1,185	\$19,672	\$2,242	\$8,646
	Exempt Vehicles	510	91		609,442	1,553	\$1,166,166	\$2,929	\$430,909
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

OFFICE OF ADMINISTRATION
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	50		1,052,733	33,479		\$64,321		\$27,989
	LDTs, Vans and SUVs	77		455,197	30,117		\$61,385		\$22,098
	Exempt Vehicles	19	56		32,802		\$62,654		\$29,544
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	1	22		28,570	0	\$64,562	\$0	\$40,655
E85	Cars and Station Wagons	148		2,957,082	83,966	9,912	\$159,815	\$17,905	\$88,104
	LDTs, Vans and SUVs	51		560,391	26,597	1,053	\$52,905	\$1,940	\$30,737
	Exempt Vehicles	4	2		2,725	170	\$5,245	\$318	\$3,531
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

OTHER STATE ORGANIZATIONS
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	1		6,573	286		\$555		\$780
	LDTs, Vans and SUVs	4		38,597	2,225		\$4,232		\$206
	Exempt Vehicles	0	2		266		\$544		\$639
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons	11		126,460	4,536	0	\$9,518	\$0	\$5,565
	LDTs, Vans and SUVs	11		158,156	6,662	0	\$13,731	\$0	\$4,516
	Exempt Vehicles	0	1		466	0	\$995	\$0	\$273
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

State organizations included under the category of other state organizations are the State Offices of the Governor, Lieutenant Governor, Legislature and Judiciary.

SUMMARY TABLE
VEHICLE OPERATIONS

LINCOLN UNIVERSITY
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	17		140,726	6,756		\$15,051		\$9,223
	LDTs, Vans and SUVs	38		260,880	13,042		\$29,277		\$7,306
	Exempt Vehicles	8			4,991		\$8,771		
Hybrid Electric	Cars and Station Wagons	2		11,903	386		\$732		
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs	2		5,166	435		\$983		
	Exempt Vehicles								
E85	Cars and Station Wagons								
	LDTs, Vans and SUVs	3		34,371	1,579	87	\$3,602	\$147	
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

MISSOURI SOUTHERN STATE UNIVERSITY
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	8		35,271	1,826		\$3,415		
	LDTs, Vans and SUVs								
	Exempt Vehicles	30			7,745		\$14,483		\$31,907
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs	1		13	77		\$112		\$0
	Exempt Vehicles								
E85	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

MISSOURI STATE UNIVERSITY
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	29		111,103	5,672		\$10,334		\$8,928
	LDTs, Vans and SUVs	113		439,453	29,570		\$55,032		\$67,140
	Exempt Vehicles	0	6		31,221		\$58,146		\$74,187
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs	8		51,348	3,198		\$6,371		\$14,965
	Exempt Vehicles								
E85	Cars and Station Wagons	8		67,183		5,239		\$9,487	\$18,786
	LDTs, Vans and SUVs	11		113,995		8,415		\$15,803	\$5,530
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs	9		5,384		53		\$120	\$5,200

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

MISSOURI WESTERN STATE UNIVERSITY
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	29			17,056		\$32,233		
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles		6		4,414		\$8,651		
E85	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

NORTHWEST MISSOURI STATE UNIVERSITY
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	8		268,158	3,569		\$8,770		\$3,918
	LDTs, Vans and SUVs	28		105,549	8,351		\$15,598		\$9,529
	Exempt Vehicles	8	37		17,951		\$34,505		\$17,011
Hybrid Electric	Cars and Station Wagons	8		110,578	3,287		\$6,768		\$4,479
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	13			26,833		\$63,389		\$30,722
E85	Cars and Station Wagons	13		102,755	3,978		\$7,762		\$2,832
	LDTs, Vans and SUVs								
	Exempt Vehicles	5			3,365		\$7,038		\$555
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

SOUTHEAST MISSOURI STATE UNIVERSITY
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	5		1,450	148		\$305		\$0
	LDTs, Vans and SUVs	100		189,723	23,203		\$48,367		\$2,949
	Exempt Vehicles	20	11		17,027		\$35,160		\$1,343
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	14	3		10,914		\$25,280	\$0	\$37
E85	Cars and Station Wagons	4		12,263	557	0	\$1,169	\$0	\$120
	LDTs, Vans and SUVs	33		166,640	13,361	56	\$27,848	\$121	\$644
	Exempt Vehicles	6	3		9,140	0	\$19,010	\$0	\$95
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

TRUMAN STATE UNIVERSITY
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	4		67,255	2,321		\$5,493		\$4,809
	LDTs, Vans and SUVs	11		69,659	4,759		\$9,201		\$2,302
	Exempt Vehicles	21	1		7,435		\$14,231		\$12,944
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	2	2		5,365		\$10,875		\$13,175
E85	Cars and Station Wagons	6		107,283	4,718		\$9,100		\$2,009
	LDTs, Vans and SUVs	6		87,313	3,614		\$7,008		\$2,792
	Exempt Vehicles	2			2,124		\$3,965		\$1,482
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs								

Many management functions of the Missouri State Fleet in Jefferson City are centralized under the Office of Administration. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table was provided by the Missouri State Agencies that use on-road and off-road vehicles to accomplish their official duties.

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE
VEHICLE OPERATIONS

UNIVERSITY OF CENTRAL MISSOURI
Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	3		5,412	341		\$607		\$165
	LDTs, Vans and SUVs	62		147,536	13,566		\$24,147		\$25,749
	Exempt Vehicles	16	7		10,940		\$20,895		\$41,858
Hybrid Electric	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs	5		5,045	322		\$615		\$1,156
	Exempt Vehicles		10		3,264		\$6,234		\$15,443
E85	Cars and Station Wagons								
	LDTs, Vans and SUVs	14		35,786	3,903		\$6,947		\$5,109
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs	1		3,347					

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SUMMARY TABLE

UNIVERSITY OF MISSOURI

VEHICLE OPERATIONS

Fiscal Year 2017

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	122		763,447	26,172		\$52,945		\$38,272
	LDTs, Vans and SUVs	658		3,082,941	228,740		\$410,359		\$312,963
	Exempt Vehicles	173	82		121,201		\$298,888		\$257,062
Hybrid Electric	Cars and Station Wagons	2		8,909	187		\$358		\$255
	LDTs, Vans and SUVs	2		14,818	635		\$1,279		\$355
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs	60		277,228	40,510		\$66,344		\$65,977
	Exempt Vehicles	34	38		74,134		\$150,986		\$127,560
E85	Cars and Station Wagons	23		67,168	3,462	480	\$7,532	\$975	\$9,126
	LDTs, Vans and SUVs	115		514,586	29,162	17,070	\$60,418	\$33,194	\$73,049
	Exempt Vehicles	31	13		30,527	495	\$64,267	\$968	\$35,480
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
All Electric	LDTs, Vans and SUVs	7		2,771		2,880		\$381	\$2,967

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